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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/506,033	02/16/2000		Yasushi Kubota	49087-CIP(820)	5865
21874	7590	01/05/2004		EXAM	INER
EDWARDS		ELL, LLP	TRAN, HENRY N		
P.O. BOX 9169 BOSTON, MA 02209				ART UNIT	PAPER NUMBER
,				2674	. 9
				DATE MAILED: 01/05/2004	, 13

Please find below and/or attached an Office communication concerning this application or proceeding.

ů	Application No.	Applicant(s)					
Office Action Summary	09/506,033	KUBOTA ET AL.					
Office Action Gammary	Examiner	Art Unit					
The MAILING DATE of this communication and	HENRY N TRAN	2674					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status							
1) Responsive to communication(s) filed on 14 Oc	<u>ctober 2003</u> .						
2a) This action is <b>FINAL</b> . 2b) ⊠ This a	action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)	vn from consideration.						
Application Papers	·						
9)☐ The specification is objected to by the Examiner 10)☒ The drawing(s) filed on 16 February 2000 is/are Applicant may not request that any objection to the constant that any objection to the constant that are constant constant to the constant that are constant that are constant to the constant that are constant that are constant that are constant to the constant that are constant	e: a) accepted or b) object drawing(s) be held in abeyance. Si ion is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).					
Priority under 35 U.S.C. §§ 119 and 120							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of 13) Acknowledgment is made of a claim for domestic since a specific reference was included in the firs 37 CFR 1.78.  a) ☐ The translation of the foreign language pro	s have been received. s have been received in Applicative documents have been received in Applicative documents have been received. (PCT Rule 17.2(a)). of the certified copies not receive priority under 35 U.S.C. § 11 at sentence of the specification	eation No  sived in this National Stage  ived.  9(e) (to a provisional application) or in an Application Data Sheet.					
14)⊠ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific							
reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.							
Attachment(s)							
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449) Paper No(s) 12</li> </ol>	5) Notice of Informa	ary (PTO-413) Paper No(s) al Patent Application (PTO-152)					

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#### DETAILED ACTION

This Office action is in response to the applicant's amendment received 10/14/03 (Paper No. 13). Claims 1-3, 18-21, 37-53 and 58-64 remain pending in this application. Applicant's remarks were considered, with the results set forth as following.

## Information Disclosure Statement

1. The examiner has considered the information disclosure statement (IDS) received 10/14/03 (Paper No. 12) (see the attached form PTO-1449).

# **Double Patenting**

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

3. Claims 1-3, 18, 37, 62 and 64 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1, 15 of U.S. Patent No. 6,580,411. Although the conflicting claims are not identical, they are not patentably distinct from each other because they recite the same apparatus using different claim terms and / or

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define the functional operation of the patented claims; for example, the present claims 2 and 3 recites the holding and level shifting functional operation of the shift register circuit defined in the patented claim 15.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-3, 18-21, 37, 53 and 58-59 are rejected under 35 U.S.C. 103(a) as being unpatentable over Isami et al (U.S. Patent No. 6,166,725).

Isami et al teach a CMOS logical circuit 230, which constitutes a data signal line drive circuit 230, for performing a logical operation based on a plurality of input signals for providing output signals for driving a plurality of pixels using active elements such as thin-film transistors of a TFT-LCD. The data signal line drive circuit 230, which is also read on the claimed limitation "a shift register circuit", formed on a substrate with the TFT-LCD, see col. 3, lines 61-62), comprising: a plurality of latch circuits 165A –165F for holding function; a plurality of level shifters LS 156 for shifting function; a display control section 210 for providing a last input signal, which is a data pulse signal using data bus 233, and a second input signal, which is a clock pulse signal D2 (a data latch clock D2) for the latch circuit 165 producing an output pulse signal, whose signal level could be shifted for having a bigger amplitude than the input pulse signal using the level shifter (see figures 1-5). Although Isami et al do not teaches expressly that

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the clock signal having amplitude smaller than amplitude of the pulse signal. However, It would have been obvious to one of ordinary skill in the art at the time the invention was made to use small amplitude input signals, which are level shifted and/or amplified later, so that the power consumption on the input lines can be reduced, thereby making it possible to provide an improved display apparatus capable of displaying a satisfactory image. By this rationale, claims 1-3, 18-21, 37, 53 and 58-59 are rejected.

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# Allowable Subject Matter

5. Claims 38-52 and 60-64 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

## Response to Arguments

6. Applicant's arguments with respect to claims 1-3, 18-21, 37, 53 and 58-64 have been considered but are moot in view of the new ground(s) of rejection.

#### Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HENRY N. TRAN whose telephone number is 703-308-8410. The examiner can normally be reached on Mon – Fri from 8:00AM – 4:30PM.

If attempts to read the examiner by telephone are unsuccessful, the examiner's supervisor, RICHARD A. HJERPE, can be reached at 703-305-4709.

Any response to this action should be mailed to:

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Commissioner of Patents and Trademarks

Washington, D.C. 20231

or fax to:

703-872-9306

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is 703-306-0377.

HENRY N. TRAN

Henry N. Tran

Examiner

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Hnt

December 31, 2003